

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

This Document contains information affecting the National Defense of the United States, within the meaning of Title 18, Sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law. The reproduction of this form is prohibited.

SECRET/CONTROL U.S. OFFICIALS ONLY

018779

COUNTRY	Hungary	REPORT	25X1
SUBJECT	Ball Bearing Plant at Ebes	DATE DISTR.	28 April 1954
DATE OF INFO.		NO. OF PAGES	5
PLACE ACQUIRED		REQUIREMENT NO.	RD 25X1
		REFERENCES	

This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

25X1

1. Location

- a. The East Hungarian Ball Bearing Factory (Keletmagyarországi Golyóscsapágygyár) is located at a distance of 8 km. from Hajduszoboszló in the outskirts of the town of Ebes, between the Hajduszoboszló-Debrecen highway and railroad line. The plant is surrounded by the Ebes woods, which consist of young acacia and Canadian poplar trees. The buildings are completely concealed by the trees both on the side of the highway and of the railroad line.
- b. By the middle of August 1953, the construction of all factory buildings was completed and the shops were equipped. At the beginning of September 1953, production was started.
- c. The area of the factory has a length of approximately 1,200 m. and a width of 900 m. The area is sandy and is planted with trees. The factory is enclosed by a 1.8 m. high reinforced concrete fence topped by a one-meter-high barbed wire fence. The fence is equipped with watch windows at intervals of 50 m. The guards posted behind these windows watch the area in front of the factory through steel gratings.

2. Buildings

- a. The factory has three gates. Gate No. 1 opens on the connecting road leading toward the Hajduszoboszló-Debrecen highway; gate No. 2 shuts off the industrial railroad siding; and gate No. 3 opens on the

SECRET/CONTROL U.S. OFFICIALS ONLY

25 YEAR RE-REVIEW

STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		AEC		ORR	X		
-------	---	------	---	------	---	-----	---	-----	--	-----	--	-----	---	--	--

(Note: Washington Distribution Indicated By "X"; Field Distribution By "#")

SECRET/CONTROL U.S. OFFICIALS ONLY

25X1

-2-

connecting road which leads to the Ondod and Ebes railroad stations.

b. The factory buildings are as follows:

Building 1. Directorate. Single-story, reinforced concrete structure with a flat roof and an area of 24 x 40 m. The basement houses the heating plant (natural gas), warehouses, and two apartments. The director's office, bookkeeping department, files, doctor's office, and the director's apartment are on the first floor. The building is equipped with an independent water supply system.

Building 2. Administration. Single-story, reinforced concrete structure with a flat roof and an area of 24 x 40 m. The basement houses the heating plant, two warehouses, and two apartments. The administration, designing department, guard room, and the chief engineer's apartment are on the first floor.

Building 3. Single-story, reinforced concrete structure with a flat roof and an area of 24 x 40 m. The basement houses the heating plant, food storeroom, and baths. The main floor contains the canteen, four apartments, and three rooms which serve as living quarters for the kitchen and guard personnel.

Building 4. Central Material Warehouse. Single-story, reinforced concrete structure with a flat roof and an area of 24 x 30 m. The basement houses storerooms. The main floor contains record keeping offices, warehouses, and an apartment. An open storage place with a flat roof and an area of 10 x 30 m. is located alongside this building. It serves for the storing of oil, sheet metal, metal bars, etc. It also contains a finished-product warehouse.

Building 5. Forge, Cutting and Stamping Shops. Single-story, reinforced concrete structure with a flat roof and an area of 24 x 45 m. Consisting of the following:

Forge: equipped with machinery for preparatory and finishing forging, furnaces heated by natural gas, and a compressor plant located in an adjoining building.

Cutting shop: equipped with flat and circular saws for cold cutting.

Ball and roller bearing shop: equipped with softening and hardening furnaces and grinding machines.

Stamping shop: equipped with eccentric presses for the stamping of ball bearings and shields.

The basement houses the heating plant with a spare boiler for natural gas or fuel oil operation. Alongside the building are located coke and coal bunkers and three fuel oil tanks.

Building 6. Coarse and Fine Milling Shop. Single-story, reinforced concrete structure with a flat roof and an area of 24 x 40 m. The basement houses the coarse and fine milling shops and the finished-product warehouse. The main floor contains the grinding shop, the semi-finished-product warehouses, and the preparatory assembly shop.

Building 7. Assembly Shop. Single-story, reinforced concrete structure with a flat roof and an area of 24 x 40 m. The basement houses the preparatory and final assembly shop and the control department. The main floor contains the lubricating and the packing departments, the

SECRET/CONTROL U.S. OFFICIALS ONLY

SECRET/CONTROL U.S. OFFICIALS ONLY

-3-

25X1

material-testing laboratory, and a finished-product warehouse.

Building 8. Gasometer and Gas Distributing Building. Area: 5 x 10 m.

Building 9. Transformer. Area: 5 x 10 m.

Building 10. Under construction. Living quarters.

Building A with an area of 6 x 12 m. Barracks for the housing of unmarried workers.

Building Group B. Three barracks (each with an area of 6 x 12 m.) for a workers' hostel.

Building C. Waterworks.

Building D. Storeroom for building materials.

3. Personnel

The factory employs 904 persons in the following categories:

a. Workers

Male skilled workers	180
" trained machine operators	140
" trained helpers	70
" helpers	130
" foremen	11
" deputy foremen	8
Female skilled workers	100
" trained machine operators	80
" trained helpers	50
" helpers	70
" forewomen	6
" deputy forewomen	10
Total	855

b. Technical Personnel

- 1 factory superintendent (director)
- 1 chief engineer
- 1 deputy chief engineer
- 2 designing engineers
- 5 shop engineers
- 3 draftsmen

c. Office Personnel

- 1 chief accountant
- 2 wage clerks
- 6 material warehouse clerks
- 4 porters
- 2 chauffeurs
- 16 plant guards

4. Raw Material

The factory receives its materials and power supply from the following enterprises:

SECRET/CONTROL U.S. OFFICIALS ONLY

SECRET/CONTROL U.S. OFFICIALS ONLY

-4-

25X1

- a. Steel: original [] steel, furnished by Hungarian Steel Products Factory (Magyar Acélárugyár).
- b. Nonferrous metals: bronze and brass bars and sheets, furnished by Rákosi Mátyás Works.
- c. Sheet iron for stamping: supplied by Rákosi Mátyás Works and Borsodnádasd Sheet Iron Factory (Borsodnádasdi Lemezgyár).
- d. Other semi-finished metal products: supplied by the Rákosi Mátyás Works.
- e. Lubricants and oils: supplied by Maszolaj (Magyar-Szovjet Olajipari Részvénytársaság, Soviet-Hungarian Oil Industry, Incorporated), Nyirbátor.
- f. Electric power: supplied by the Debrecen power plant of Trans-Tisza Electric Power Supply Enterprise (Tiszántúli Áramszolgáltató Vállalat).
- g. Fuel gas: Hajduszoboszló Natural Gas Enterprise (Hajduszoboszlói Földgáz Vállalat).

25X1

5. Production

The factory produces the following:

- a. Ring bearings: Series A. Diameters from 20 x 42 x 12 mm. to 200 x 360 x 38 mm. Series B. Diameters from 10 x 35 x 11 to 90 x 225 x 54 mm.
- b. Ring bearings: Series A. Diameters from 10 x 30 x 9 to 60 x 100 x 22 mm. with single shields. Series B. Diameters from 10 x 30 x 9 to 60 x 110 x 22 mm. with double shields.
- c. Ring bearings: Diameters from 10 x 35 x 11 to 60 x 130 x 31 mm. with outer ring grooving.
- d. Double-row ring bearings: Diameters from 17 x 40 x 16 to 75 x 130 x 31 mm. in the following types: (1) with cylindrical bore, (2) with conic bore, (3) with single shield, and (4) with double shield.
- e. Double-row, sloping-action ring bearings: From 15 x 35 x 15.5 mm. to 110 x 240 x 92 mm. in the following types: (1) with cylindrical bore, (2) with conic bore, (3) with single shield, (4) with double shield, and (5) with outer ring grooving.
- f. Oscillating ball bearings with spacing sleeves: Series A, from 17 x 47 x 31 x 35 x 9 mm. to 100 x 200 x 38 x 80 x 145 x 22 mm. in the following types: (1) with cylindrical bore and (2) with conic bore. Series B, from 17 x 52 x 16 x 31 x 35 x 9 mm. to 100 x 240 x 50 x 80 x 145 x 22 mm.
- g. Flat (axial) ring bearings with single shields: Series A, from 30 x 47 x 11 mm. to 180 x 250 x 56 mm. Series B, from 25 x 52 x 18 mm. to 150 x 230 x 80 mm.
- h. Flat (axial) ring bearings with double shields: Series A, 15 x 10 x 32 x 22 x 5 to 150 x 130 x 215 x 89 x 20 mm. Series B, from 25 x 20 x 52 x 34 x 8 mm. to 120 x 100 x 210 x 123 x 27 mm.
- i. Single-row roller bearings: Series A, from 50 x 80 x 16 to 260 x 400 x 65 mm. Series B, from 17 x 40 x 12 to 150 x 270 x 45 mm. in the following types: (1) with single shields, (2) with double shields, (3) with cylindrical bore, (4) with conic bore, (5) with outer grooving, (6) with interior ring extended on both sides, and (7) with interior ring extended on one side.

SECRET/CONTROL U.S. OFFICIALS ONLY

-5-

- j. Oscillating ball bearings with extended interior rings: Series A, from 20 x 47 x 14 x 40 x 29 x 2 x 7 x 9 to 50 x 90 x 20 x 58 x 62 x 7 x 7 x 9 mm. Series B, from 20 x 52 x 15 x 44 x 31 x 5 x 7 x 9 to 50 x 110 x 27 x 62 x 70 x 3 x 7 x 9 mm.
- k. Conic roller bearings: Series A, from 15 x 42 x 13 x 11 x 14.5 x 14 mm. to 120 x 260 x 55 x 46 x 60 x 59 mm. Series B, from 25 x 62 x 24 x 20 x 25.5 x 25 mm. to 120 x 260 x 86 x 69 x 91 x 90 mm. in the following types: (1) with cylindrical bore, (2) with conic bore, (3) with single shield, and (4) with double shield.
- l. Production of the following quantities per 40-day periods is scheduled under the production plan:

(1) Ring bearings	3	-	3.5 tons
(2) Ring bearings	2	-	3.5 "
(3) Ring bearings	1.5	-	2 "
(4) Double-row ring bearings	2	-	2.5 "
(5) Double-row, sloping-action ring bearings	1.5	-	2 "
(6) Oscillating ball bearings with spacing sleeves	3	-	4 "
(7) Oscillating ball bearings with extended interior rings	3.5	-	4 "
(8) Axial ring bearings with single shields	3	-	3.5 "
(9) Axial ring bearings with double shields	4	-	4.5 "
(10) Single-row roller bearings	4	-	5 "
(11) Conic roller bearings	3.5	-	4 "

6. Shifts

The factory is operating on a three-shift basis without stoppage on Sundays and holidays.

SECRET/CONTROL U.S. OFFICIALS ONLY